

## Abstract

A stator structure with composite windings is used for the motor or generator to provide high efficiency, low cogging torque and low cost and the winding thereof can be firmly attached to an insulating stage. The stator structure is composed of silicon steel plates formed by pressing and stacking. The stator structure is composed of separated stator teeth, stator, winding and insulating stage. The winding is formed by a spinning winding tool or a winding formation tool and then mounted on the insulating stage. The stator teeth are also mounted on the insulating stag, thus assembling a stator for motor or generator with high efficiency, low cogging torque and low cost.